



## SEQUENCE LISTING

Schuetz, John <120> A Method of Identifying and/or Isolating Stem  
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 370 375 380  
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Met	Leu	Asn	Arg	Glu	Glu	Gln	Asp	Asn	Glu	Ala	Asn	Lys	Thr	Glu	Glu	305	310	315	320
Pro	Ser	Lys	Gly	Glu	Lys	Pro	Val	Ile	Glu	Asn	Leu	Ser	Glu	Phe	Tyr	325	330	335	
Ile	Asn	Ser	Ala	Ile	Tyr	Gly	Glu	Thr	Lys	Ala	Glu	Leu	Asp	Gln	Leu	340	345	350	
Pro	Gly	Ala	Gln	Glu	Lys	Lys	Gly	Thr	Ser	Ala	Phe	Lys	Glu	Pro	Val	355	360	365	
Tyr	Val	Thr	Ser	Phe	Cys	His	Gln	Leu	Arg	Trp	Ile	Ala	Arg	Arg	Ser	370	375	380	
Phe	Lys	Asn	Leu	Leu	Gly	Asn	Pro	Gln	Ala	Ser	Val	Ala	Gln	Leu	Ile	385	390	395	400
Val	Thr	Val	Ile	Leu	Gly	Leu	Ile	Ile	Gly	Ala	Ile	Tyr	Phe	Asp	Leu	405	410	415	

Lys Tyr Asp Ala Ala Gly Met Gln Asn Arg Ala Gly Val Leu Phe Phe  
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 Leu Thr Thr Asn Gln Cys Phe Ser Ser Val Ser Ala Val Glu Leu Phe  
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 Val Val Glu Lys Lys Leu Phe Ile His Glu Tyr Ile Ser Gly Tyr Tyr  
 450 455 460  
 Arg Val Ser Ser Tyr Phe Phe Gly Lys Val Met Ser Asp Leu Leu Pro  
 465 470 475 480  
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 515 520 525  
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 Phe Val Phe Met Met Leu Phe Ser Gly Leu Leu Val Asn Leu Arg Thr  
 545 550 555 560  
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 580 585 590  
 Pro Gly Phe Asn Val Thr Asp Asn Ser Thr Cys Val Asn Ser Tyr Ala  
 595 600 605  
 Ile Cys Thr Gly Asn Glu Tyr Leu Ile Asn Gln Gly Ile Glu Leu Ser  
 610 615 620  
 Pro Trp Gly Leu Trp Lys Asn His Val Ala Leu Ala Cys Met Ile Ile  
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Glu	Gly	Ala	Val	Leu	Ser	Phe	His	Asn	Ile	Cys	Tyr	Arg	Val	Lys	Leu	35	40	45
Lys	Ser	Gly	Phe	Leu	Pro	Cys	Arg	Lys	Pro	Val	Glu	Lys	Glu	Ile	Leu	50	55	60
Ser	Asn	Ile	Asn	Gly	Ile	Met	Lys	Pro	Gly	Leu	Asn	Ala	Ile	Leu	Gly	65	70	75
Pro	Thr	Gly	Gly	Gly	Lys	Ser	Ser	Leu	Leu	Asp	Val	Leu	Ala	Ala	Arg	85	90	95
Lys	Asp	Pro	Ser	Gly	Leu	Ser	Gly	Asp	Val	Leu	Ile	Asn	Gly	Ala	Pro	100	105	110
Arg	Pro	Ala	Asn	Phe	Lys	Cys	Asn	Ser	Gly	Tyr	Val	Val	Gln	Asp	Asp	115	120	125
Val	Val	Met	Gly	Thr	Leu	Thr	Val	Arg	Glu	Asn	Leu	Gln	Phe	Ser	Ala	130	135	140
Ala	Leu	Arg	Leu	Ala	Thr	Thr	Met	Thr	Asn	His	Glu	Lys	Asn	Glu	Arg	145	150	155
Ile	Asn	Arg	Val	Ile	Gln	Glu	Leu	Gly	Leu	Asp	Lys	Val	Ala	Asp	Ser	165	170	175
Lys	Val	Gly	Thr	Gln	Phe	Ile	Arg	Gly	Val	Ser	Gly	Gly	Glu	Arg	Lys	180	185	190
Arg	Thr	Ser	Ile	Gly	Met	Glu	Leu	Ile	Thr	Asp	Pro	Ser	Ile	Leu	Phe	195	200	205
Leu	Asp	Glu	Pro	Thr	Thr	Gly	Leu	Asp	Ser	Ser	Thr	Ala	Asn	Ala	Val	210	215	220
Leu	Leu	Leu	Leu	Lys	Arg	Met	Ser	Lys	Gln	Gly	Arg	Thr	Ile	Ile	Phe	225	230	235
Ser	Ile	His	Gln	Pro	Arg	Tyr	Ser	Ile	Phe	Lys	Leu	Phe	Asp	Ser	Leu	245	250	255
Thr	Leu	Leu	Ala	Ser	Gly	Arg	Leu	Met	Phe	His	Gly	Pro	Ala	Gln	Glu	260	265	270
Ala	Leu	Gly	Tyr	Phe	Glu	Ser	Ala	Gly	Tyr	His	Cys	Glu	Ala	Tyr	Asn	275	280	285
Asn	Pro	Ala	Asp	Phe	Phe	Leu	Asp	Ile	Ile	Asn	Gly	Asp	Ser	Thr	Ala	290	295	300
Val	Ala	Leu	Asn	Arg	Glu	Glu	Asp	Phe	Lys	Ala	Thr	Glu	Ile	Ile	Glu	305	310	315
Pro	Ser	Lys	Gln	Asp	Lys	Pro	Leu	Ile	Glu	Lys	Leu	Ala	Glu	Ile	Tyr	325	330	335
Val	Asn	Ser	Ser	Phe	Tyr	Lys	Glu	Thr	Lys	Ala	Glu	Leu	His	Gln	Leu	340	345	350
Ser	Gly	Gly	Glu	Lys	Lys	Lys	Lys	Ile	Thr	Val	Phe	Lys	Glu	Ile	Ser	355	360	365

Tyr	Thr	Thr	Ser	Phe	Cys	His	Gln	Leu	Arg	Trp	Val	Ser	Lys	Arg	Ser	370	375	380	
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Leu	Thr	Thr	Asn	Gln	Cys	Phe	Ser	Ser	Val	Ser	Ala	Val	Glu	Leu	Phe	435	440	445	
Val	Val	Glu	Lys	Lys	Leu	Phe	Ile	His	Glu	Tyr	Ile	Ser	Gly	Tyr	Tyr	450	455	460	
Arg	Val	Ser	Ser	Tyr	Phe	Leu	Gly	Lys	Leu	Leu	Ser	Asp	Leu	Leu	Pro	465	470	475	480
Met	Arg	Met	Leu	Pro	Ser	Ile	Ile	Phe	Thr	Cys	Ile	Val	Tyr	Phe	Met	485	490	495	
Leu	Gly	Leu	Lys	Ala	Lys	Ala	Asp	Ala	Phe	Phe	Val	Met	Met	Phe	Thr	500	505	510	
Leu	Met	Met	Val	Ala	Tyr	Ser	Ala	Ser	Ser	Met	Ala	Leu	Ala	Ile	Ala	515	520	525	
Ala	Gly	Gln	Ser	Val	Val	Ser	Val	Ala	Thr	Leu	Leu	Met	Thr	Ile	Cys	530	535	540	
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Leu	Thr	Ile	Ala	Tyr	Leu	Lys	Leu	Leu	Phe	Leu	Lys	Lys	Tyr	Ser		645	650	655	